

STATOR FOR AN ELECTRIC DEVICE

ABSTRACT OF THE DISCLOSURE

5 A stator is provided for an electrical device (e.g., a motor) comprised of one or
more stator segments formed by the compaction of one or more powdered metallic
materials. Each stator section has at least one tooth that forms a substantially toroidal
path for magnetic flux entering and leaving the stator segment. Each stator segment also
has a continuous insulated electrical winding that is associated with the stator segment
10 such that a magnetic field is induced in the stator segment when a current is passed
through the continuous insulated electrical winding. The current that is passed through
the continuous insulated electrical winding of any one stator segment is not of the same
electrical phase as the current that is passed through the winding of any adjacent stator
segment.